

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANTS: Dario NERI,
Barbara CARNEMOLLA,
Annalisa SIRI,
Enrica BALZA,
Patrizia CASTELLANI,
Alessandro PINI,
Luciano ZARDI,
Greg Paul WINTER,
Giovanni NERI,
Laura BORSI
- (ii) TITLE OF INVENTION: ANTIBODIES TO THE ED-B
DOMAIN OF FIBRONECTIN, THEIR CONSTRUCTION AND
USES
- (iii) NUMBER OF SEQUENCES: 12
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: HEDMAN, GIBSON & COSTIGAN, P.C.
 - (B) STREET: 1185 Avenue of the Americas
 - (C) CITY: New York
 - (D) STATE: New York
 - (E) COUNTRY: USA
 - (F) ZIP: 10036-2646
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb
storage
 - (B) COMPUTER: IBM PS/2
 - (C) OPERATING SYSTEM: DOS
 - (D) SOFTWARE: Word Perfect 5.1
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
 - (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 9610967.3
 - (B) FILING DATE: May 24, 1996
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Costigan, James V.
 - (B) REGISTRATION NUMBER: 25,669
 - (C) REFERENCE/DOCKET NUMBER: 515-4132

(ix) TELECOMMUNICATION INFORMATION:

- (A) TELEPHONE: (212) 302-8989
- (B) TELEFAX: (212) 302-8998

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 4 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(iii) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Ser Leu Pro Lys
1

(3) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 12 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(iii) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Gly Val Gly Ala Phe Arg Pro Tyr Arg Lys His Glu
1 5 10

(4) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 17 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(iii) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CAGGAAACAG CTATGAC 17

(5) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 69 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(iii) SEQUENCE DESCRIPTION: SEQ ID NO:4:

CTTGGTCCCT CCGCCGAATA CCACMNNMNN MNNMNNMNNM
 NNAGAGGAGT TACAGTAATA GTCAGCCTC 69

(6) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 54 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(iii) SEQUENCE DESCRIPTION: SEQ ID NO:5:

ATTGCTTTTC CTTTTTGCGG CCGCGCCTAG GACGGTCAGC
 TTGGTCCCTC CGCC 54

(7) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 43 base pairs
 (B) TYPE: amino acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(iii) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Gly	Gly	Cys	Leu	Thr	Asp	Thr	Leu	Gln	Ala	Phe	Thr	Asp
1				5					10			
Gln	Leu	Glu	Asp	Glu	Lys	Ser	Ala	Leu	Gln	Thr	Glu	Ile
	15				20						25	
Ala	His	Leu	Leu	Lys	Glu	Lys	Glu	Lys	Leu	Glu	Phe	Ile
		30						35				
Leu	Ala	Ala	His									
40												

(8) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 8 amino acids
 (B) TYPE: amino acid

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(iii) SEQUENCE DESCRIPTION: SEQ ID NO:7:

Pro Val Val Leu Asn Gly Val Val
1 5

(9) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 8 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(iii) SEQUENCE DESCRIPTION: SEQ ID NO:7:

Pro Phe Glu His Asn Leu Val Val
1 5

(10) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 113 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(iii) ORIGINAL SOURCE:

(A) STRAIN: CGS1

(iii) SEQUENCE DESCRIPTION: SEQ ID NO:9:

Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln
1			5						10			
Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Val	Ser	Gly
	15				20					25		
Phe	Thr	Phe	Ser	Ser	Tyr	Ala	Met	Ser	Trp	Val	Arg	Gln
		30						35				
Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Ser	Ala	Ile	Ser
40				45					50			
Gly	Ser	Gly	Gly	Ser	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys
	55					60					65	
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr
				70					75			

Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr
80						85					90	
Ala	Val	Tyr	Tyr	Cys	Ala	Arg	Ser	Leu	Pro	Lys	Trp	Gly
		95						100				
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Arg				
105					110							

(11) INFORMATION FOR SEQ ID NO:10:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 121 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(iii) ORIGINAL SOURCE:

- (A) STRAIN: CGS2

(iii) SEQUENCE DESCRIPTION: SEQ ID NO:10:

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln
1				5					10			
Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly
15					20						25	
Phe	Thr	Phe	Ser	Ser	Tyr	Ala	Met	Ser	Trp	Val	Arg	Gln
			30					35				
Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Ser	Ala	Ile	Ser
40				45					50			
Gly	Ser	Gly	Gly	Ser	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys
		55				60					65	
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr
			70					75				
Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr
80				85							90	
Ala	Val	Tyr	Tyr	Cys	Ala	Arg	Gly	Val	Gly	Ala	Phe	Arg
		95						100				
Pro	Tyr	Arg	Lys	His	Glu	Trp	Gly	Gln	Gly	Thr	Leu	Val
105				110						115		
Thr	Val	Ser	Arg									
			120									

(12) INFORMATION FOR SEQ ID NO:11:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(iii) ORIGINAL SOURCE:

(A) STRAIN: CGS1

(iii) SEQUENCE DESCRIPTION: SEQ ID NO:11:

Ser	Ser	Glu	Leu	Thr	Gln	Asp	Pro	Ala	Val	Ser	Val	Ala
1				5					10			
Leu	Gly	Gln	Thr	Val	Arg	Ile	Thr	Cys	Gln	Gly	Asp	Ser
15					20						25	
Leu	Arg	Ser	Tyr	Tyr	Ala	Ser	Trp	Tyr	Gln	Gln	Lys	Pro
			30					35				
Gly	Gln	Ala	Pro	Val	Leu	Val	Ile	Tyr	Gly	Lys	Asn	Asn
40				45						50		
Arg	Pro	Ser	Gly	Ile	Pro	Asp	Arg	Phe	Ser	Gly	Ser	Ser
		55				60						65
Ser	Gly	Asn	Thr	Ala	Ser	Leu	Thr	Ile	Thr	Gly	Ala	Gln
			70						75			
Ala	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Asn	Ser	Ser	Pro
80					85						90	
Val	Val	Leu	Asn	Gly	Val	Val	Phe	Gly	Gly	Gly	Thr	Lys
			95					100				
Leu	Thr	Val	Leu	Gly								
105												

(13) INFORMATION FOR SEQ ID NO:12:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 109 amino acids
 (B) TYPE: amino acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(iii) ORIGINAL SOURCE:

(A) STRAIN: CGS2

(iii) SEQUENCE DESCRIPTION: SEQ ID NO:12:

Ser	Ser	Glu	Leu	Thr	Gln	Asp	Pro	Ala	Val	Ser	Val	Ala
1				5					10			
Leu	Gly	Gln	Thr	Val	Arg	Ile	Thr	Cys	Gln	Gly	Asp	Ser
15					20						25	
Leu	Arg	Ser	Tyr	Tyr	Ala	Ser	Trp	Tyr	Gln	Gln	Lys	Pro
			30					35				
Gly	Gln	Ala	Pro	Val	Leu	Val	Ile	Tyr	Gly	Lys	Asn	Asn
40				45						50		
Arg	Pro	Ser	Gly	Ile	Pro	Asp	Arg	Phe	Ser	Gly	Ser	Ser
		55				60						65
Ser	Gly	Asn	Thr	Ala	Ser	Leu	Thr	Ile	Thr	Gly	Ala	Gln
			70						75			
Ala	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Asn	Ser	Ser	Pro
80					85						90	

Phe Glu His Asn Leu Val Val Phe Gly Gly Gly Thr Lys
95 100
Leu Thr Val Leu Gly
105